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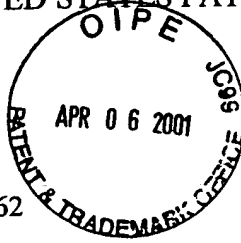
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re the Application of

Asaf LEWIN et al.



Group Art Unit: 2152

Application No.: 09/737,762

Filed: December 18, 2000

Docket No.: 108155

For: SYSTEM FOR PROVIDING SERVICES THROUGH THE INTERNET

CLAIM FOR PRIORITYDirector of the U.S. Patent and Trademark Office
Washington, D.C. 20231

Sir:

The benefit of the filing date of the following prior foreign application filed in the following foreign country is hereby requested for the above-identified patent application and the priority provided in 35 U.S.C. §119 is hereby claimed:

Patent Application No. 133546 filed in Israel on December 16, 1999.

In support of this claim, a certified copy of said original foreign application:

 X is filed herewith. was filed on in Parent Application No. filed . will be filed at a later date.

It is requested that the file of this application be marked to indicate that the requirements of 35 U.S.C. §119 have been fulfilled and that the Patent and Trademark Office kindly acknowledge receipt of this document.

Respectfully submitted,

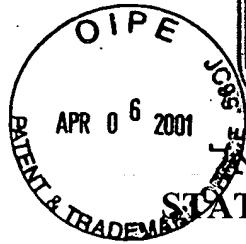
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חוק הפטנטים, תשנ"ז - 1967
PATENTS LAW, 5727-1967

בקשה לפטנט
Application For Patent

אני, (שם המבקש, מענו ולגבי גוף מאוגדת מקום התאגדותו)
I, (Name and address of applicant, and in case of body corporate-place of incorporation)

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ששמה הוא being Inventors
of an invention the title of which is

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מערכת למתן שירותים באינטרנט

(בעברית)
(Hebrew)

A system for providing services through the internet

(באנגלית)
(English)

Hereby apply for a patent to be granted to me in respect thereof.

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מבקשת פטנט from application		לבקשה/לפטנט to Patent/Appl.		מספר/סימן Number/Mark	תאריך Date	מדינת האיגוד Convention Country
No.	מס'	No.	מס'			
Dated	מיום	Dated	מיום			
P.o.A.: (1) POA to be filed (2) POA to be filed (3) POA to be filed						
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REINHOLD COHN AND PARTNERS Patent Attorneys P.O.B. 4060, Tel-Aviv				C. 121932		
חתימת המבקש Signature of Applicant				1999 שנת December בחודש 16 היום Year of This		
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מערכת למתן שרותים באינטרנט

A system for providing services through the internet

Asaf LEWIN

Flora LEWIN

Mordechai KRISPIL

אסף לוינ

פלורה לוינ

מרדכי קריספיל

C. 121932

Field of the Invention

The present invention relates to electronic commerce and in particular to methods and software for searching (based on availability) of products or services of resource limited nature.

U.S References (related patents)

Patent	Issued	Title
US5926793	20/7/1999	Digital-timeshare-exchange
US5878416	2/3/1999	Automated system and method for matching an item of business property to a recipient
US5963913	5/10/1999	System and method for scheduling an event subject to the availability of requested participants
US5960406	28/9/1999	Scheduling system for use between users on the web
US5970466	19/10/1999	Graphical computer system and method for appointment scheduling

Background of the Invention

In daily life, it is often required to book an appointment, with service providers such as, *inter alia*, beauty salons, veterinarians, plumbers or technicians. In addition, people book places for units on a resource limited basis (such as lodging or golf courses).

Today, people schedule such appointments and events by contacting the service providers by telephone, fax, or email. Prior to the scheduling act, people must search for the suitable service provider (which is available and suites the consumer), by manually contacting each provider, based on a service provider list (e.g. directory services, yellow pages).

As the use of internet and Web based applications evolved, people started using the Internet, to search for service providers in the required category. However, currently the Web is limited to present a list of service provider in a required category and geographical zone (such as online Yellow pages), however the user would prefer to get a list filtered by availability of the product or service and other specific parameters.

Some applications (e.g. WorldRes) provide Web based information systems as aforementioned, with similar functionality, for specific categories such as hotel reservations or golf courts reservations, but does not address the need for online availability checking or/and on-line booking and consequently confirmation/rejection.

However, due to the fact that the Web does not yet provide an appropriate general solution for booking and confirmation of availability of products and services, which are resource limited, there is thus a need for a system that provides such solutions.

Summary of the Invention

The aforementioned problems are met and long-felt needs solved by embodiments of the present invention for searching and booking intangible products of resource limited nature.

The term Booking and Reservation will be used interchangeably throughout this document. The term PoS will be used throughout this document instead of "Products or Services". The term "reservation order" will be used throughout this document to describe a request by a consumer to book an appointment (e.g. in a beauty saloon) or reserve a product (e.g. Bed and Breakfast).

It is noted that the examples and specific details described below do not limit the present invention in any way and a multitude of additional PoS's, interfaces and systems are within the scope of the present invention.

The system constitutes a consumer user interface that is generated in a known *per se* page markup syntax utilizable by known *per se* Web browsers for allowing consumers to communicate with the system of the present invention.

Upon selection of a type of PoS by the consumer, the system of the present invention presents the customer with a "search" form which includes both general filter criteria (such as the requested date/time) and specific filter criteria that are related to the chosen type of PoS (e.g. a search form for a Bed and Breakfast may require the consumer to enter information such as the number of adults and the number of children while the search form for a veterinary may require the consumer to enter information such as the type of pet). The above mechanism for presenting specific search forms / search criteria / search result forms for each PoS type is referred to in this document as "Social interface" mechanism.

Upon submission of the search form by the consumer using an interface provided by the system, the system matches PoS to the filter criteria set by the consumer including the availability of the PoS. Availability is tested by checking if the PoS has any free (unreserved) time slots in the interval (start and end date/time) specified by the consumer.

The consumer may then select any of the matching PoS and generate a reservation order using the user interface provided by the system. The reservation order is stored in the system database and triggers at least one notification to the corresponding provider in the form of *inter alia*, mail, fax, pager, or cellular phone message.

At any time the provider may view the status of one or more reservation orders assigned to his products or services using the user interface provided by the system via Web or via the provider client software that is a part of the system. The system gives the provider an interface to confirm or reject reservation orders. Confirming or rejecting reservation order leads to notifications sent by the system to the respective consumer.

The Web integrated computer system provided in accordance with the present invention thus provides simple and efficient means for consumers to search, book and confirm reservations for a wide range of services and intangible products, and for unlimited variety of service providers to receive and manage online reservations world-wide via the internet.

The system is novel in that, although the system supports substantially unlimited variety of service providers and products, the system is capable of adapting the "personality" of each type of product or service together with its unique properties, using the aforementioned "social interface" mechanism. Thus providing the consumer with a comprehensive and easy to use interface for each type of product or service. For example, the forms related to golf courts look and behave like a customary golf reservation system and the forms generated for bed and breakfasts look and behave like a customary bed and breakfast reservation system, etc...

The system is preferable integrated into Web sites which include a database of PoS providers (*inter alia*, Portals, yellow pages, directory services of various sorts), thus enriching those Web sites with search capabilities on availability basis and enabling consumers to perform online reservation of PoS via the system. The system obviates the need for manual search of most suitable and available PoS, by providing consumers with a tool for automatic search and availability, and booking of such PoS.

The invention is readily understood by those skilled in the art by following detailed description in conjunction with 13 drawings.

Brief description of the drawings.

Fig. 1A - illustrates a System architecture.

Fig. 1B - illustrates a block diagram of the server architecture of the system.

Fig. 1C - illustrates a block diagram of the Web Server.

Fig. 1D - illustrates a block diagram of the Database Subsystem.

Fig. 1E - illustrates a block diagram of the Dissemination Subsystem.

Fig. 1F - illustrates a block diagram of the Synchronization Subsystem.

Fig. 1G - illustrates a block diagram of the administration subsystem.

Fig. 1H - illustrates a block diagram of the Provider client subsystem.

Fig. 2A - illustrates a schematic diagram of the PoS "Social interface" data.

Fig. 2B - illustrates a process of new provider registration.

Fig. 2C - illustrates a process of consumer's search for PoS.

Fig. 2D - illustrates a process of PoS availability display.

Fig. 2E - illustrates a process of PoS reservation.

Detailed description of the invention

It is noted that the present invention is not bound or limited in any way by the specific hardware, operating systems (OS) or examples used in following description and thus preferred embodiments do not limit the scope of the present invention in any way.

FIG. 1A - illustrates a multiple server 30 environment, which comprises a computer system in accordance with the present invention that allows consumers 20 to search providers 10 that may provide them with required services and products based on availability of those services and products and other criteria that are unique to the required products or services. A transport medium 40 preferably using Internet Protocols (IP), interfaces the providers 10 and the consumers 20 to the servers 30.

All of the systems listed above preferably communicate via an Ethernet 100BaseT network, and a 100 megabit Switching Hub. In addition, a second, isolated, network segment exists between the Web Server 150 and the external communications hardware (Internet router). This keeps external traffic isolated from the internal network, as well as providing a dedicated connection between the Web Server and the Internet for maximum throughput.

FIG. 1B - A consumer 20 or Provider 10 can use any device that connects to the system via the Internet capable of running a web browser and receiving email and includes, but is not limited to, such devices as televisions, computers, hand-held electronic devices, wireless electronic devices. In addition a provider 10 may use the provider client application 50 that runs on any Pentium based device that runs Microsoft Windows 95 or higher. All such embodiments and equivalents thereof are intended to be within the scope of the present invention. The system of the present invention preferably uses the World Wide Web 40 as a transport medium for connecting providers and consumers. Consumers 20 use a Web Browser 130 to connect to the Web subsystem 160. By working with a simple set of forms expressed in standard HTML and visible in the consumers web browser, consumers access and manipulate the data stored in the Database Subsystem 200 to query for products and services and create reservation orders. As a result of these actions the system may invoke the Dissemination Subsystem 180 in the Dissemination Server 170 to disseminate reservation order records to the appropriate providers 10 of the System of the present invention. These transmissions may take such forms as Email 70, fax communications 90, voice and short message communications (SMS) 100, pager notification 110. In the future additional systems and methods may be used for messaging or/ and notification to the providers as and when they will become available.

FIG. 1C - The Web server 150 sends client interface information as HTML through the Web subsystem 160 to a Web browser 130 and 60 software program, and an Email reader 140 and 70 that execute within the consumer 120 and provider 80 workstations. As shown in the configuration described in FIGS. 1A-1H, Web server 150 may call CGI scripts that process information from the client. The database server 190 operates in collaboration with Web server 150 and maintains all the end users (providers and consumers) account information, and other associated transaction data as well as all interactions with the Web server that result in a change in the information in the database subsystem 200.

For clarity, the HTML files and high level CGI scripts are preferably partitioned into three subsystems as shown in FIG. 1C. The account creation subsystem 260 controls interactions when there is not yet a provider specified. The reservation subsystem 290 controls reservation, while the availability subsystem 320 is responsible for availability calculations and display. There is also a lower level library utilized of generally useful routines for interacting with the database and dissemination subsystems and performing such generic tasks as filling in HTML templates. These types of lower level routines are known *per se*.

The Web server 150 is the point of entry to substantially, the entire system of the present invention. It determines who the remote user is and makes appropriate decisions while serving the HTML to the client. The Web server sends HTML to the client (consumer 120 or provider 80) Workstations, validates end user passwords, sends logging and transaction information to the database server 190, and performs logical operations, thereby also behaving as a transactional server.

The Web server's 150 operating system is preferably based on Windows NT 4.0 server. Windows NT is a multi-platform operating system provided by Microsoft Corporation of Redmond, Wash. This operating system software provides The system of the present invention with the greatest potential for growth as subsequent versions of Windows NT may well become available for new and different kinds of microprocessors in response to growing demand by a growing number of customers. The current implementation of the system of the present invention preferably runs on computers running microprocessors made by Intel Corporation such as Xeon. Xeon based computers can be configured to have more than one microprocessor. This configuration is becoming more common, and since Windows NT 4.0 is an operating system that supports multi-threaded applications it can utilize the full power of dual processor computer systems.

The Windows NT 4.0 server includes IIS (Internet Information Server), which is a completely integrated Internet application platform. IIS includes a high performance Web server, an application development environment, integrated full-text searching, multimedia streaming, and site management tools. The security infrastructure is totally integrated with Windows NT server, enabling an easy to maintain and highly secure Web development and deployment environment. IIS also includes support for HTTP byte-range browsers to begin receiving data from any part of a file for enhanced performance. HTTP is a term of art and stands for Hyper-Text Transport Protocol.

Another important factor in deciding to use Windows NT is that there is a wealth of available development tools, developer support, and end-product support for this operating system. Microsoft has, by far, the most comprehensive and well-maintained system in place for providing the information and tools necessary to create the planned system of the present invention. In addition, there are many third-party tools available, which will facilitate development.

As mentioned before, the present invention is not bound by the specific hardware or operating systems mentioned above, but can be utilized on any hardware and/or software platform that presently is utilized for internet Web services as described herein.

FIG. 1D - The database server 190 which implements that database subsystem 200 of the present invention, is a server that maintains all associated logging and transaction information for the system of the present invention. Through the system of the present invention database 390 (which is backed up by a backup database 380 for safety purposes), the database server 370 logs client setup and account creation information, stores reservation orders made by consumers, blockings made by providers and all the information regarding the product and services, maintains user account information, maintains, produces and prints reports, hosts backup operations, and performs statistical calculations for the entire system.

The database server 190 uses the Windows NT 4.0 operating system and utilizes the Windows NT SQL server 7.0 shown at 370. The SQL server 370 communicates with a set of stored procedure calls in library 360.

The SQL server 370 is optimized specifically for the Windows NT threading model. Each connection to the database and its associated work may be handled by a separate thread within the SQL Server process space. Since Windows NT can distribute threads to multiple processors for execution, when many users simultaneously send queries to SQL Server 370, each of those requests may be distributed across the multiple processors for execution. Because of this design, the SQL Server 370 is well suited for high processing loads and scales extremely well on Symmetric Multi-Processing (SMP) servers. SQL Server 370 will efficiently use additional processors to its advantage in high volume environments.

The disk subsystem of the database server 390 is a vulnerable and crucial server element. Due to the mission critical design of this subsystem, it is preferable to utilize a Level 5 RAID. As RAID is an alternative to standard SCSI hard disk drives, a RAID system provides automatic recovery from hard drive failures. Level 5 RAID systems provide the best balance between cost and level of data protection. A Level 5 RAID system uses multiple hard disk drives, on which the stored data is recorded redundantly using a scheme by which the data on the disk can be reconstructed if one of the disk drive units in the RAID fails. In the event of failure, the failed drive can be removed from the RAID system while it is still operating, and a replacement drive can be installed. The RAID system will re-generate the data and return itself to full protection capability. The data stored on the disk subsystem remains available for normal processing, that is from the time the drive failures to the time the RAID system is returned to full protection capability. Other levels of RAID which are less costly do not offer this type of data availability and could translate into costly system downtime.

Statistical calculations will be performed by the Database Server, along with other types of report generation. Specifically, IIS can log directly to an Open Database Connectivity (ODBC) standard data source. This makes the availability of the data collected by the Database Server about client activity on the system to be more readily available and easier to process into logical reports.

FIGS. 1E - The system of the present invention includes a dissemination server 170. The dissemination server 170 receives messages from the web server 150 and in other cases directly from the database server 190, to be disseminated to clients in the form of mail / fax / pager or short messages to cellular phones. The dissemination server consists of a message queue mechanism that handles the message dissemination in the same order they arrive. The dissemination server 170 integrate commercial off the shelf API (application programs interface) libraries for sending messages via fax / pager and cellular phones.

FIGS. 1F - the system of the present invention includes a synchronization server 210. The Synchronization server 210 receives interfaces with the database server 190 on one side and with the provider client application 50 on the other side. The purpose of the Synchronization server 210 is to synchronize the local copy of reservation database 530 stored on the providers client 50 with the central database data 390. Synchronization server 210 constantly maintains a sufficient amount of "empty" reservation order database ID's to the provider client 50, this enables the provider client to safely perform off-line reservations to customers (in addition to those that generated their reservations via the web) without the risk of conflict with an existing reservation order ID in the central database 390. Whenever the provider 10 selects to synchronize his client application 50 with the central database 390 on the web, the synchronization server 210 copies his locally generated reservations / confirmations (together with their related information) to the central web database 390, and then copies the web generated reservations / confirmations (together with their related information) to his local database 530. The synchronization server 210 utilizes an FTP server 500 as mechanism of reading 490 and writing 480 files by the provider client 50 to the synchronization server 210.

In another embodiment of the present invention, the synchronization server 210 also enables synchronizing web personal schedulers, calendars, and phonebooks, if utilized. Personal schedulers, calendars and phone books are today available not only as applications residing in personal computers but are offered on some portal web sites as an additional service for their customers. Thus, when the provider 10 confirms a transaction, his personal scheduler, calendar and/or phonebook are updated accordingly. Likewise, the synchronization server 210 will update the customer's calendar, scheduler and/or phonebook to reflect the transaction time and place requirements. The phonebooks are updated to enable both provider and customer to contact each other respectively in case last minute changes to appointment or service need to be made.

FIGS. 1G - the system of the present invention includes an administrator Workstation 230 that provides administrative capabilities for the entire system. The administrator workstation 230 allows administrators or other operators of this terminal to perform routine operations that effect the system. Such operations include, but are not limited to adding and updating providers / consumers records, printing reports, performing backups, and maintaining the programs that comprise the System of the present invention. The administrator workstation 230 is able to communicate directly with the Web server 150 and the database server 190.

FIGS. 1H - the system of the present invention includes an provider client application 50 that provides the provider 10 a comprehensive tool for managing his reservations orders, customers, reports and perform scheduling. The provider client application 50 enables the provider to perform off-line reservations to customers (in addition to reservations that originated from consumers via the web) without the risk of conflict with an existing reservation order ID in the central database 390. The provider client application automatically configures itself according to the provider's PoS using the aforementioned "social interface" mechanism.

FIGS. 2A through **2D** describe the social interface mechanism through description of a few of the main processes of the system.

The system is suited for all PoS types, and adapts its user interface by presenting PoS type-depended user interface, according to the current PoS type. For example, for consumer searching a veterinary, the system presents a search form with filter criteria regarding whether a pet or mammal specialist is required, whereas for consumer searching a bed and breakfast, the system presents a search form which consists filter criteria regarding the necessity of a breakfast and of a T.V set.

The database contains PoS-type-depended data for each PoS type (e.g. unique data for plumbers, vets, wedding halls, etc).

The system uses this data in the following main cases:

- i. On event of new provider registration – the system requests for PoS-type-depended parameters, according to the PoS type of the provider.
- ii. On event of consumer's search for PoS – the system combines into the search form PoS-type-depended data, as part of the query which is used to select PoS.
- iii. On event of PoS availability display – the system displays the time slots in time units which were set for the PoS.
- iv. On event of consumer's booking of PoS time slot – the system combines PoS-type-depended data, as part of the reservation form.
- v. Provider client subsystem combines the unique PoS data in its interface.

These cases will be detailed in the following paragraphs.

FIG. 2A - presents schematic diagrams of the main database entities related to the "Social interface" mechanism. The figure illustrates the composition of the data entities and provides some examples for contained data:

- i. PoS types data – defines the PoS-type-depended data elements of PoS and booking entities, uniquely per each PoS type. The definition consists of elements' name and compulsory attribute.

- ii. PoS data – combines general data (such as Pos type, name and address) and PoS-type-depended data: numeric and Boolean data elements, which describe the PoS.
- iii. Reservation data - combines general data (such as consumer name, PoS name and desired date/time) and PoS-type-depended data: numeric and Boolean data elements, which describe the booking.

FIG. 2B – presents the process of new provider registration.

This process is activated whenever a new provider wishes to use the system of the present invention, in order to propose his PoS through the system.

Upon initiation of the process, the provider is presented with a welcome page, where the provider is requested to indicate his PoS type (by selection from a predefined list). As a result, the system presents a “registration” form, which should be filled by the provider. The “registration” form contains general data (e.g. PoS name, PoS address), as well as PoS-type-depended data. Elements’ labels for the PoS-type-depended data, which are presented in the form, are taken from tables related to PoS types entity, in the database. An important element of the requested information in the “registration” form, is time slot unit (e.g. day, hour, half an hour). The allowed values for the time slot unit are predefined for each PoS type and stored in PoS type tables within the database. The provider fills and submits the “registration” form. The filled data is stored in PoS tables. And the end of this process the new PoS is registered and ready to be presented and reserved by consumers.

FIG. 2C – illustrates the process of consumer’s search for PoS.

This process is activated whenever a consumer wishes to use the system of the present invention, in order to search PoS.

The consumer may use, but is not limited to the standard search mechanism of the Web site which is integrated into The system of the present invention (e.g. Web yellow pages). As a result, this standard search mechanism generates a list of PoS. The system of the present invention refines the list, by using the following process: The system presents a "search" form which includes both availability criteria (the requested date/time) and specific filter criteria that are related to the chosen type of PoS (e.g. a search form for a Bed and Breakfast may require the consumer to enter information such as the number of required beds while the search form for a veterinary may require the consumer to enter information such as the type of pet). This specific filter criteria is derived from PoS types tables in the database, according to PoS-type-depended data labels of the selected PoS type. The user indicates the desired criteria and the system searches for PoS that meet the criteria, by searching the database both in PoS tables (for PoS with the indicated filter criteria) and in reservation order tables (for PoS that have free unreserved time slots in the interval time specified by the consumer). Finally, the system presents the refined PoS list to the consumer.

FIG. 2D – illustrates the process of PoS availability display

This process is activated whenever a consumer has selected a particular PoS (e.g. by using the aforementioned search process) and wishes to use The system of the present invention, in order to see this PoS availability.

Upon selection by the client (consumer or provider) the system presents an "availability" form which shows free / reserved indication for each time slot, within a period of time selected by the client. The time slot unit is retrieved from PoS tables, whereas the free / reserved indicator is calculated according to information stored in Reservation order tables within the database.

FIG. 2E – illustrates the process of PoS reservation

This process is activated whenever a consumer has selected a particular PoS (e.g. by using the aforementioned search process) and wishes to use The system of the present invention, in order to reserve (book) a time slot of this PoS.

Upon selection by the consumer, the system presents a "reservation" form, which includes both general data (such as desired time slot) and PoS-type-depended data (such as number of children for bed and breakfast reservation and equipment rental requirement indicator for golf court reservation). This specific PoS-type-depended data is derived from PoS types tables in the database, according to data labels of the selected PoS type. The time slot unit is information, which is retrieved from PoS tables. The user fills in and submits the "reservation" form. As a result, the information is stored in reservation order tables in the database, and the provider is notified of the new reservation order.

CLAIMS:

1. A web integrated computer method for searching resource limited product or service (PoS) on the Web; the PoS is associated with general criteria that include at least availability data, and specific criteria related to the type of the PoS; the method comprising:

- (a) searching the web using a browser, through social interface, PoS that meet a general filter criteria that include desired resource indication, and specific filter criteria;
- (b) obtaining resulting PoS having general criteria and specific criteria that match said general filter criteria and said specific filter criteria; said matched PoS having availability that matches the desired resource indication;
- (c) selecting at least one from among said resulting PoS and generating a reservation order therefor; and
- (d) receiving status indication in respect of said order; said status indication includes at least confirm or rejection.

2. The method according to Claim 1, wherein said resource limited PoS being time-sharing based PoS and wherein said desired resource indication being timing indication.

3. For use in the method of Claims 1 or 2, a social interface.

4. A web integrated computer system for searching resource limited product or service (PoS) on the Web; the PoS is associated with general criteria that include at least availability data, and specific criteria related to the type of the PoS; the system comprising:

- (a) a browser operative to search the web, through social interface, PoS that meet a general filter criteria that include desired resource indication, and specific filter criteria;
- (b) the browser obtaining resulting PoS having general criteria and specific criteria that match said general filter criteria and specific filter criteria; said matched PoS having availability that matches the desired resource indication;
- (c) the browser receiving selection of at least one from among said resulting PoS and generating a reservation order therefor.

5. The system of Claim 4, further comprising means for receiving status indication in respect of said order; said status indication includes at least confirm or rejection.

6. The system according to Claims 4 or 5, wherein said resource limited PoS being time-sharing based PoS and wherein said desired resource indication being timing indication.

7. The system according to anyone of Claims 4 to 6, wherein a portal or service provider in said web integrated computer system is fitted with Web-based-service provider module, synchronization module; availability booking module and search engine, all associated with database.

8. For use in the system of anyone of Claims 4 to 7, a social interface.

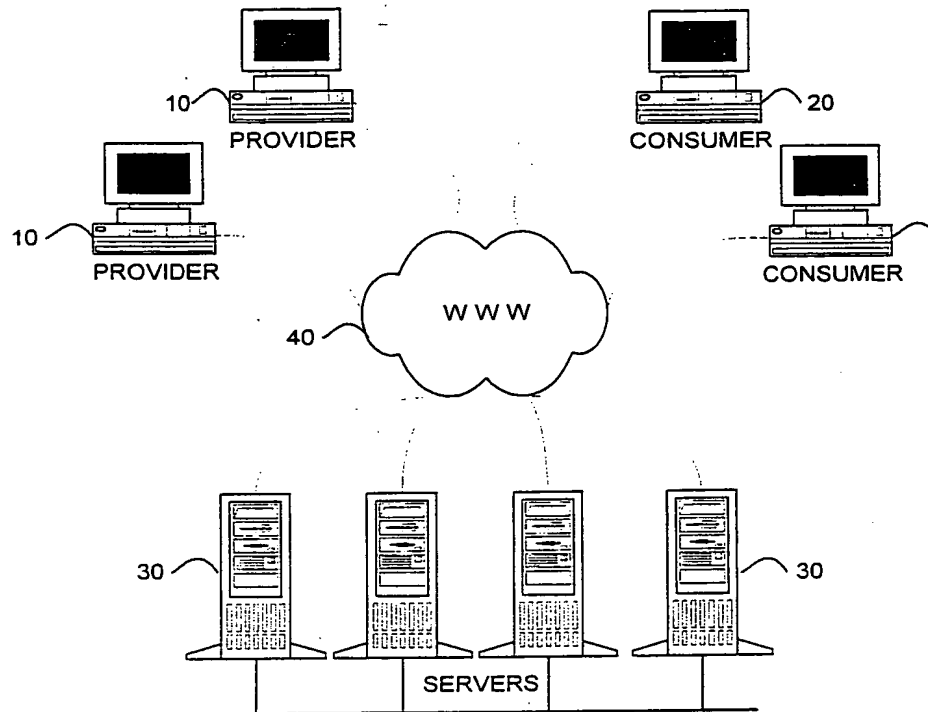
9. For use in the system of anyone of Claims 4 to 7, a portal or internet service provider.

For the Applicants,
REINHOLD COHN AND PARTNERS
By:

A handwritten signature in black ink, appearing to be a stylized 'h' or 'ho' followed by a horizontal line.

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FIG. 1A



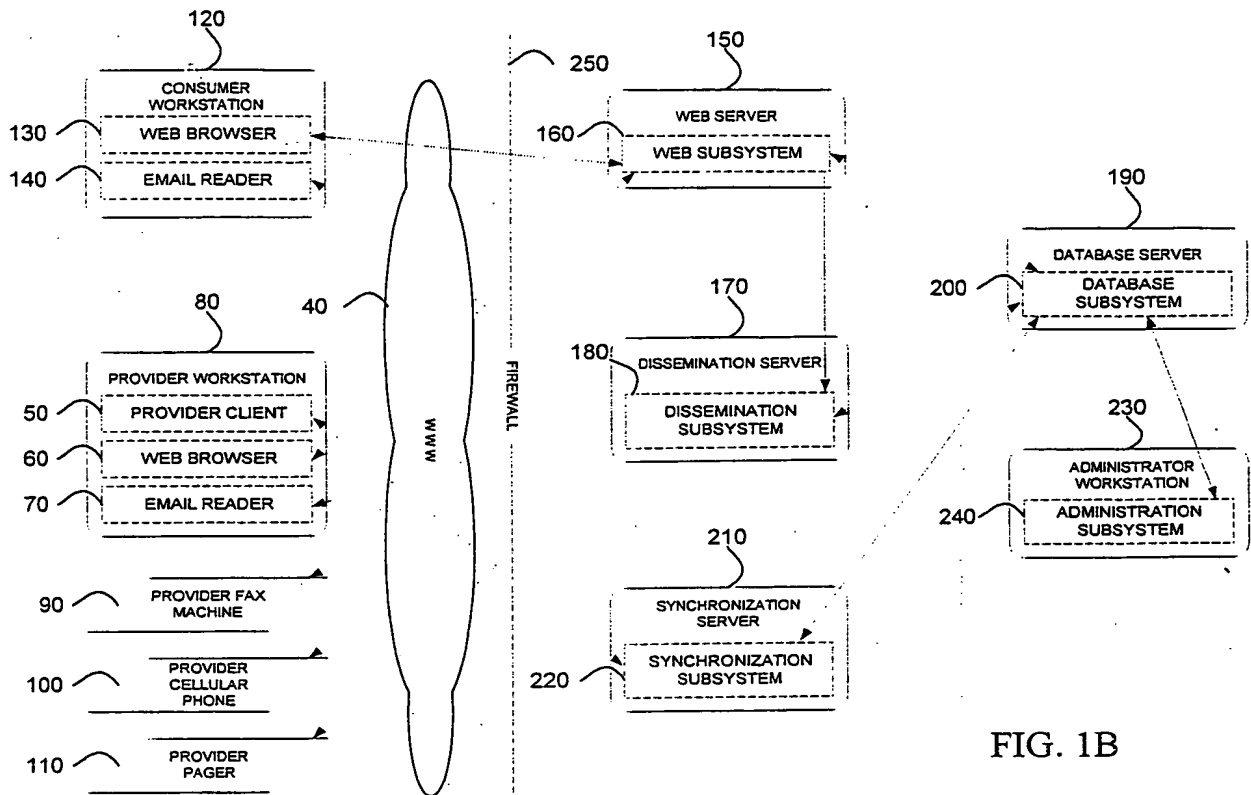


FIG. 1B

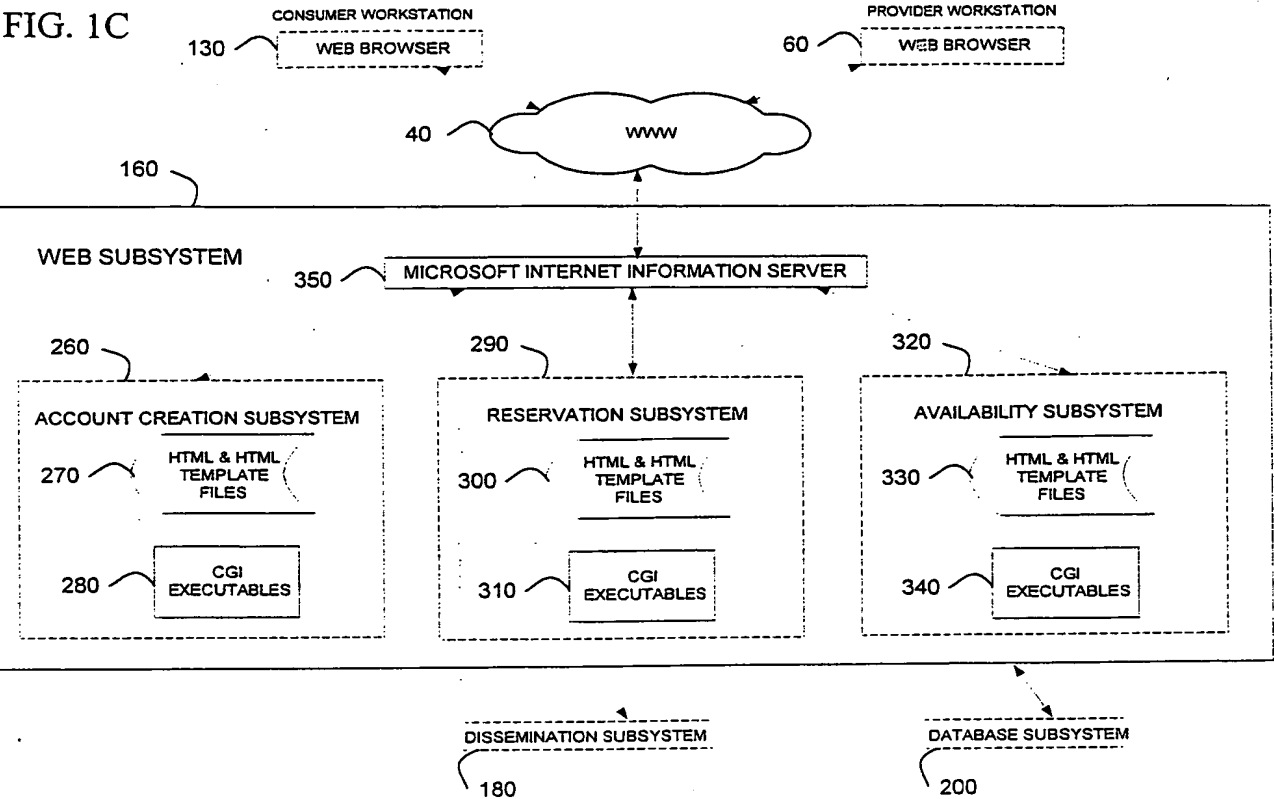


FIG. 1D

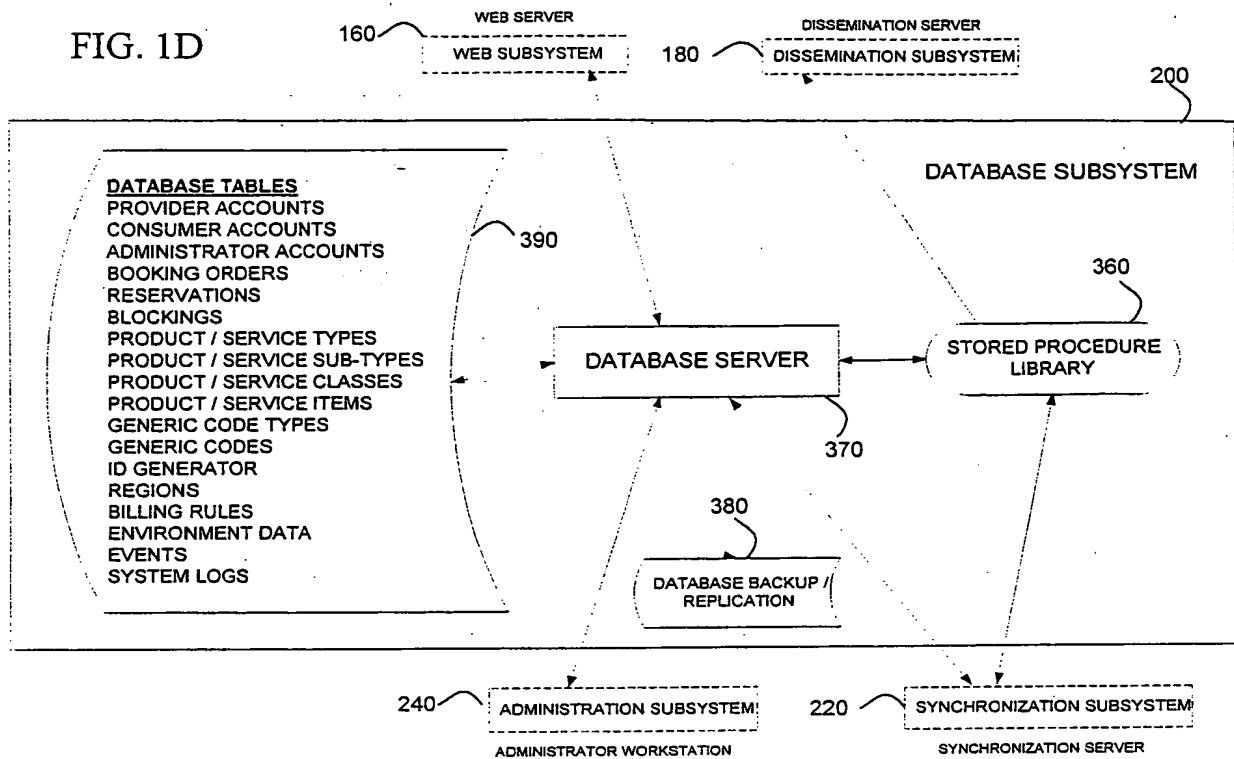


FIG. 1E

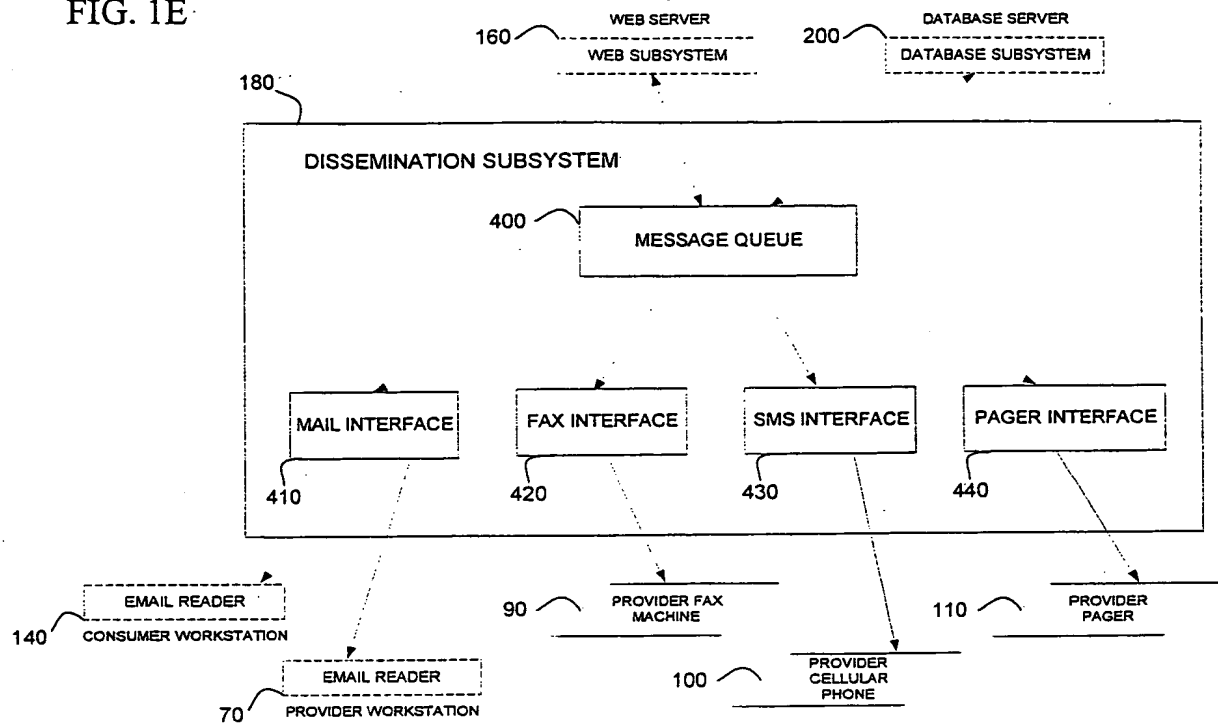


FIG. 1F

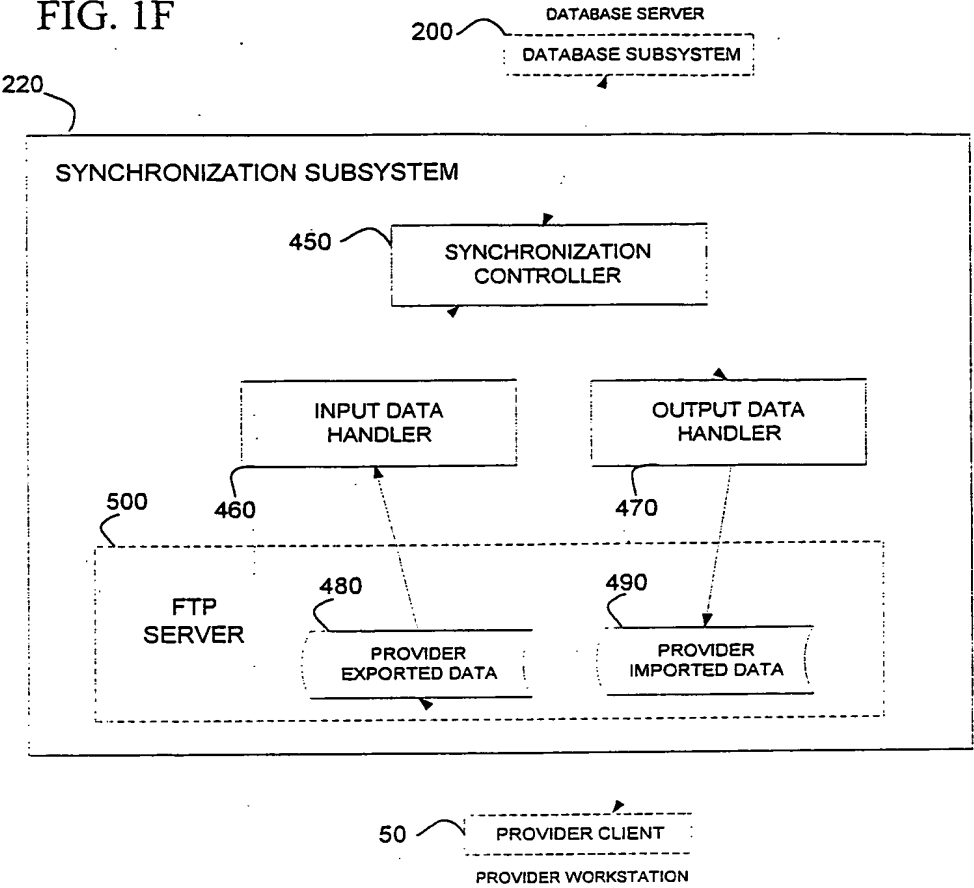
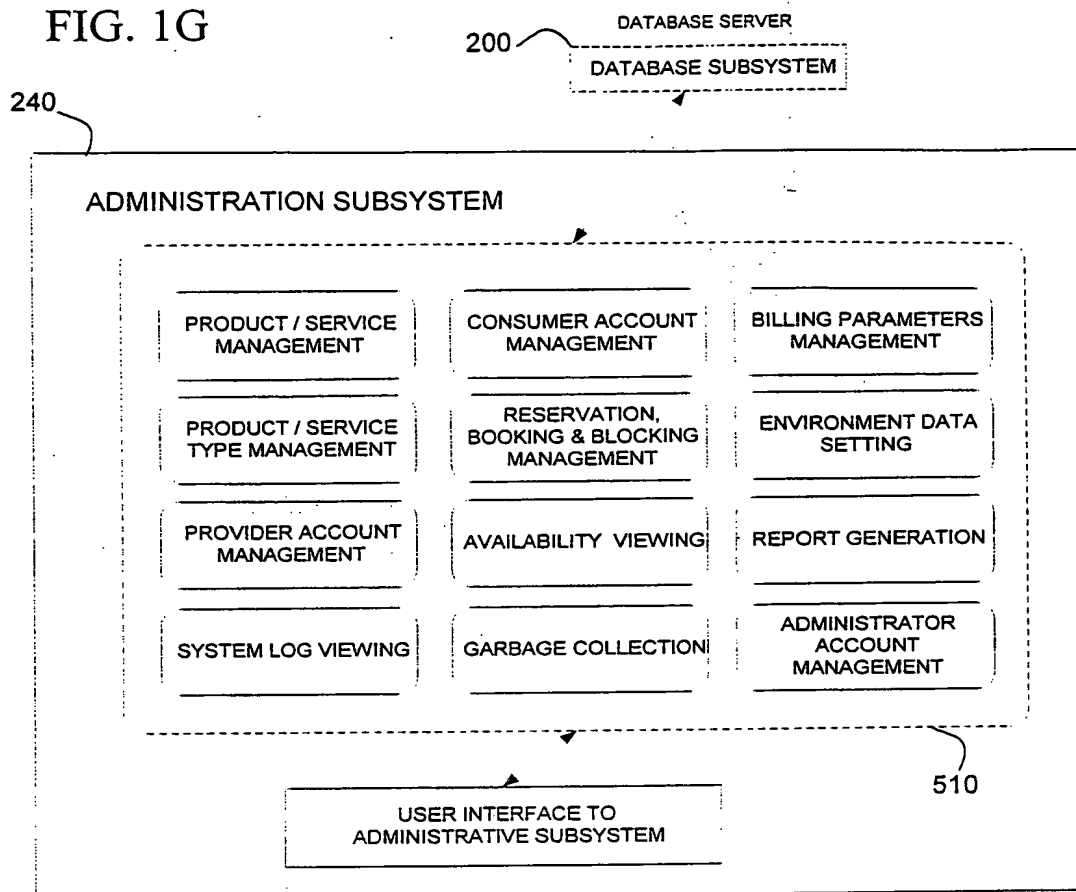
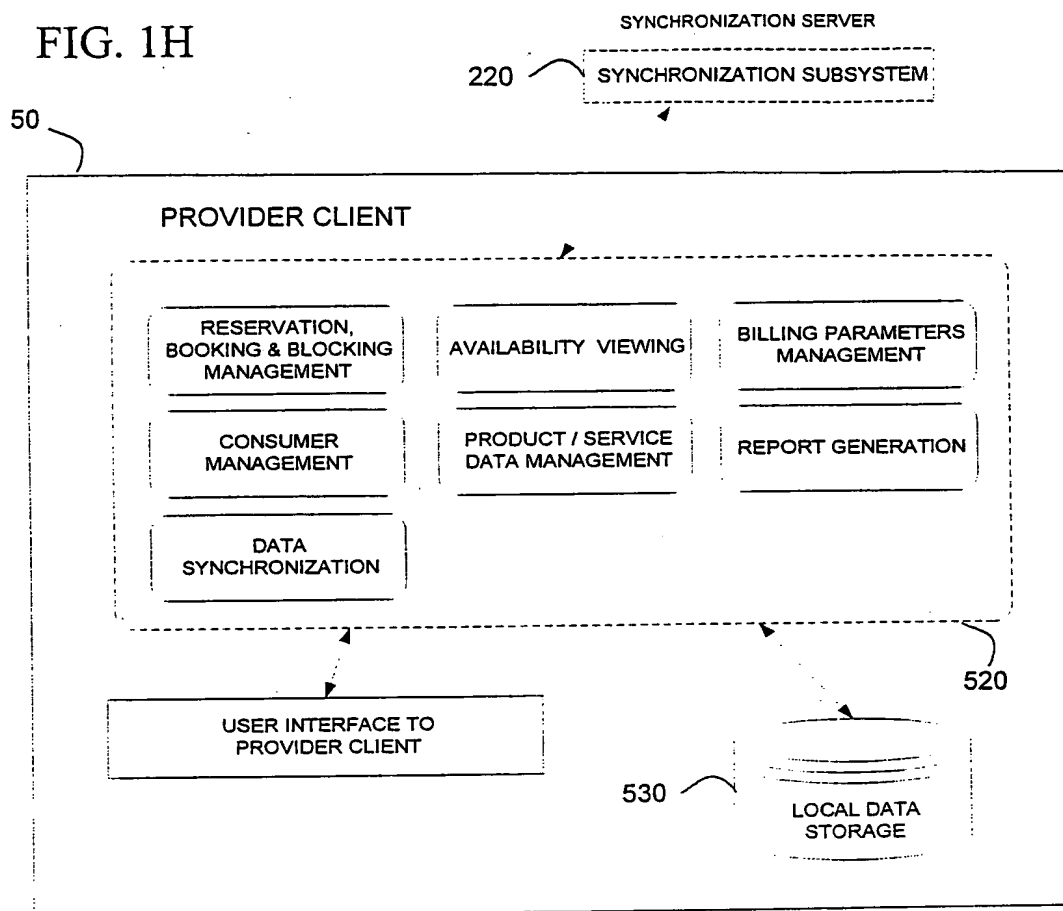


FIG. 1G



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FIG. 1H



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FIG. 2A

PoS types data

PoS attributes						PoS reservation attributes				
PoS type	PoS Numeric 1	PoS Numeric 2	...	PoS Boolean 1	...	Res. Numeric 1	Res. Numeric 2	...	Res. Boolean 1	...
Veterinary	-	-	...	Pet specialist	...	Number of sick animals	-	...	Home visit	...
Golf court	Number of holes	-	...	Golf equipment	...	Number of players	-	...	-	...
Bed & Breakfast	Number of beds	Number of toilettes	...	Swimming pool exists	...	Number of adults	Number of children	...	Including breakfast	...

PoS data

General data				Depended data				
PoS Name	PoS type	...	Time slot unit	PoS Numeric 1	PoS Numeric 2	...	PoS Boolean 1	...
Dr. Doolittle	Veterinary	...	1 hour	-	-	...	TRUE	...
Abeys cotage	Bed & Breakfast	...	1 day	2	1	...	TRUE	...
T-time	Golf court	...	3 hours	20	-	...	FALSE	...
Country In	Bed & Breakfast	...	1 day	4	1	...	TRUE	...

PoS reservation data

General data			Depended data				
PoS name	Consumer name	...	Res. Numeric 1	Res. Numeric 2	...	Res. Boolean 1	...
Dr. Doolittle	Mr. Simpson	...	1	-	...	FALSE	...
T-time	Jay leno	...	4	-	...	-	...
Country In	Charles Dickens	...	2	1	...	TRUE	...

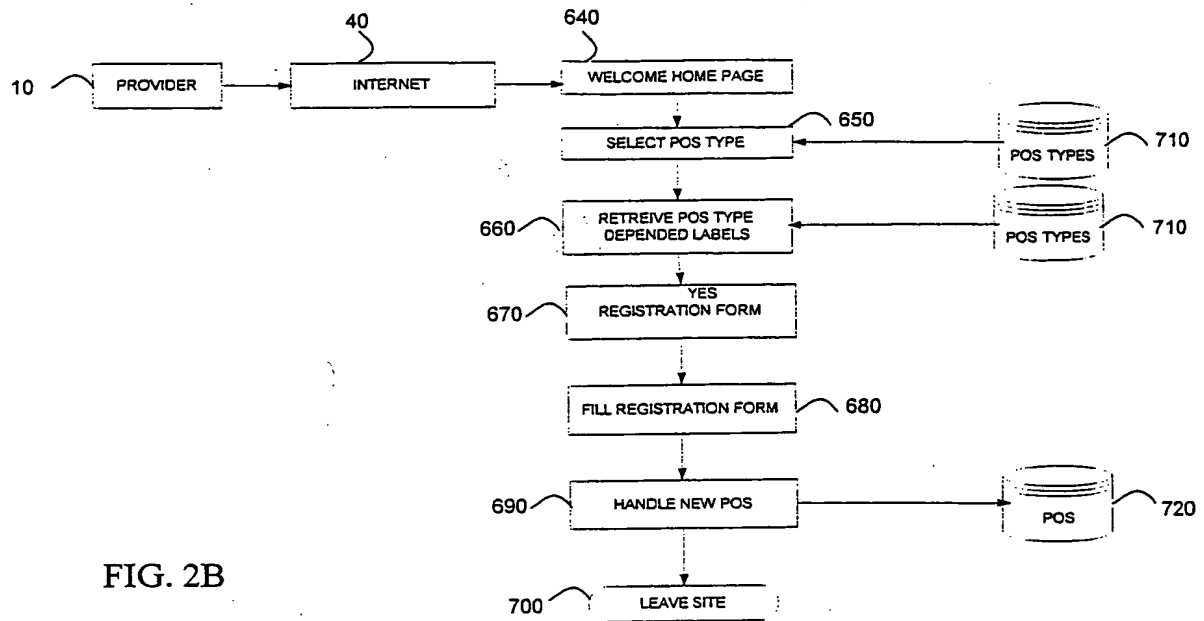


FIG. 2B

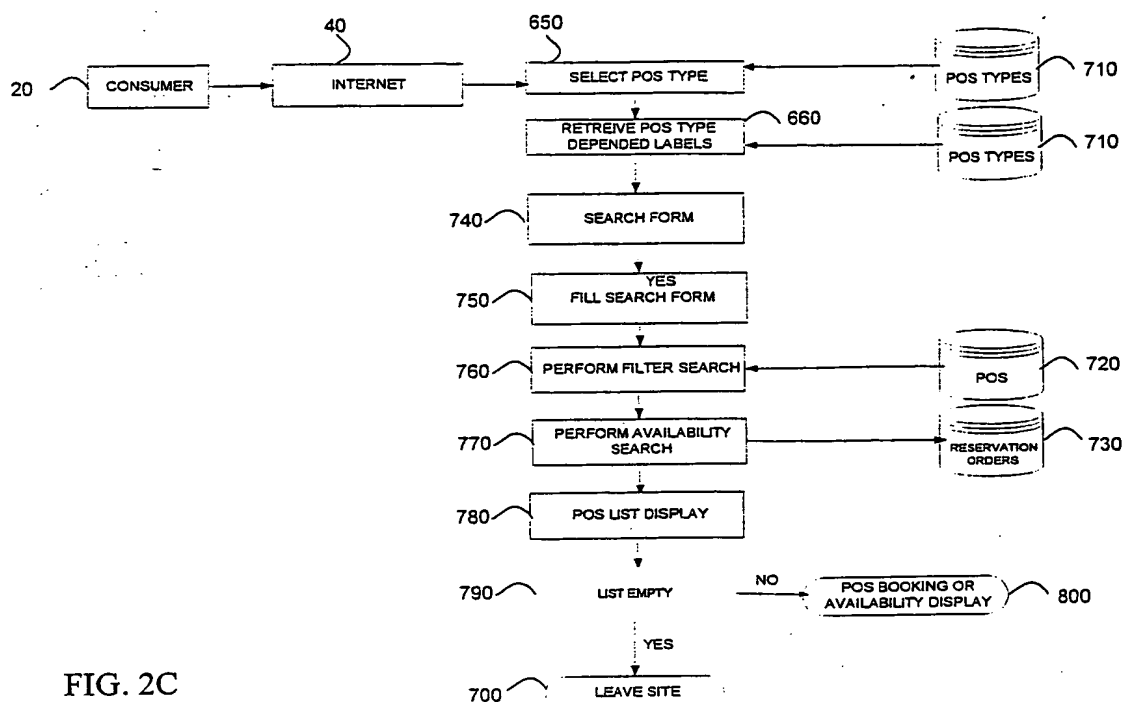


FIG. 2C

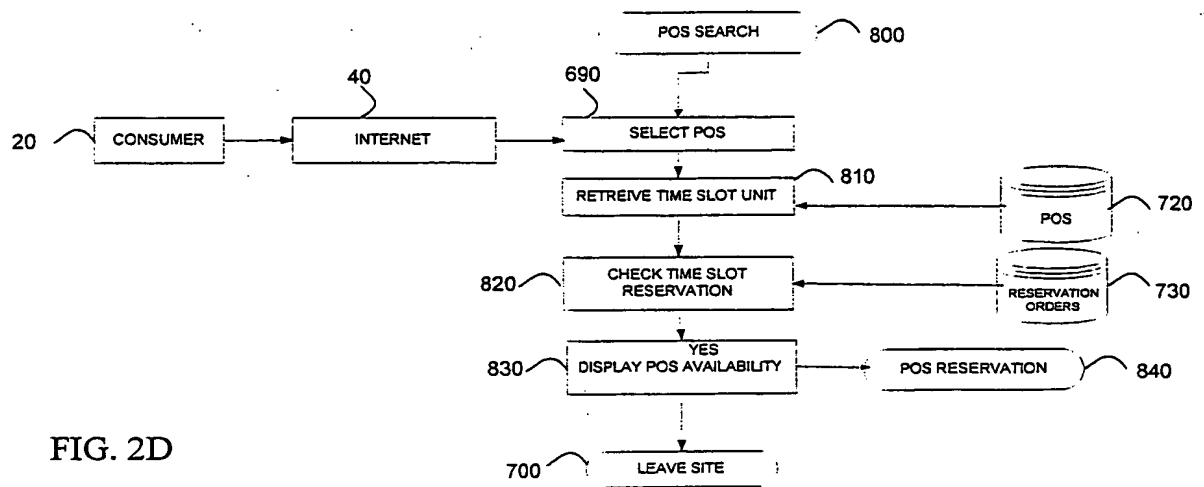


FIG. 2D

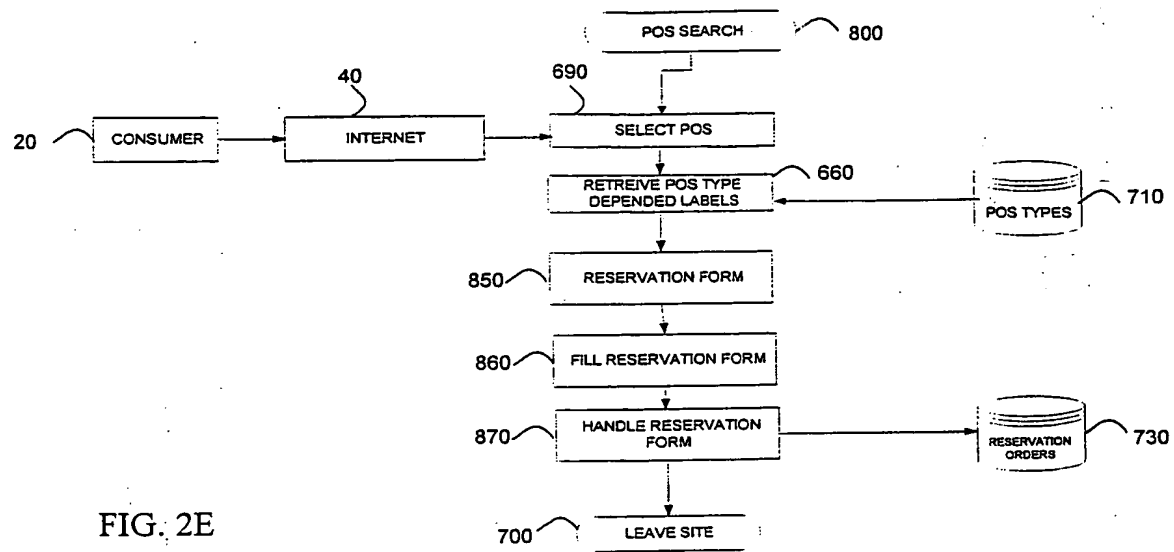


FIG. 2E